RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/659, 869A_____

Source: _____ IFWO16 _____

Date Processed by STIC: _____ 09/19/2005 _____

ENTERED

RAW SEQUENCE LISTING   DATE: 09/19/2005
PATENT APPLICATION: **US/10/659,869A**   TIME: 10:34:15

Input Set : **A:\BB1294 USCNT Corrected Seq List.txt**
Output Set: **N:\CRF4\09192005\J659869A.raw**

```
 3 <110> APPLICANT: Cahoon, Rebecca E.
 4        Fang, Yiwen
 5        Odell, Joan
 6        Weng, Zude
 8 <120> TITLE OF INVENTION: Plant Myb Transcription Factor Homologs
10 <130> FILE REFERENCE: BB1294USCNT
12 <140> CURRENT APPLICATION NUMBER: US 10/659,869A
13 <141> CURRENT FILING DATE: 2003-09-11
15 <150> PRIOR APPLICATION NUMBER: US 10/021,811
16 <151> PRIOR FILING DATE: 2001-12-14
18 <150> PRIOR APPLICATION NUMBER: US 09/452,244
19 <151> PRIOR FILING DATE: 1999-12-01
21 <150> PRIOR APPLICATION NUMBER: US 60/110,609
22 <151> PRIOR FILING DATE: 1998-12-02
24 <160> NUMBER OF SEQ ID NOS: 63
26 <170> SOFTWARE: Microsoft Office 97
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 771
30 <212> TYPE: DNA
31 <213> ORGANISM: Zea mays
33 <220> FEATURE:
34 <221> NAME/KEY: unsure
35 <222> LOCATION: (4)
36 <223> OTHER INFORMATION: n is a, c, g or t
38 <220> FEATURE:
39 <221> NAME/KEY: unsure
40 <222> LOCATION: (99)
41 <223> OTHER INFORMATION: n is a, c, g or t
43 <220> FEATURE:
44 <221> NAME/KEY: unsure
45 <222> LOCATION: (396)
46 <223> OTHER INFORMATION: n is a, c, g or t
48 <220> FEATURE:
49 <221> NAME/KEY: unsure
50 <222> LOCATION: (470)
51 <223> OTHER INFORMATION: n is a, c, g or t
53 <220> FEATURE:
54 <221> NAME/KEY: unsure
55 <222> LOCATION: (486)
56 <223> OTHER INFORMATION: n is a, c, g or t
58 <220> FEATURE:
59 <221> NAME/KEY: unsure
60 <222> LOCATION: (586)
```

$C(pg-6)$

RAW SEQUENCE LISTING   DATE: 09/19/2005
PATENT APPLICATION: **US/10/659,869A**   TIME: 10:34:15

Input Set : **A:\BB1294 USCNT Corrected Seq List.txt**
Output Set: **N:\CRF4\09192005\J659869A.raw**

```
 61 <223> OTHER INFORMATION: n is a, c, g or t
 63 <220> FEATURE:
 64 <221> NAME/KEY: unsure
 65 <222> LOCATION: (600)
 66 <223> OTHER INFORMATION: n is a, c, g or t
 68 <220> FEATURE:
 69 <221> NAME/KEY: unsure
 70 <222> LOCATION: (612)
 71 <223> OTHER INFORMATION: n is a, c, g or t
 73 <220> FEATURE:
 74 <221> NAME/KEY: unsure
 75 <222> LOCATION: (615)
 76 <223> OTHER INFORMATION: n is a, c, g or t
 78 <220> FEATURE:
 79 <221> NAME/KEY: unsure
 80 <222> LOCATION: (627)
 81 <223> OTHER INFORMATION: n is a, c, g or t
 83 <220> FEATURE:
 84 <221> NAME/KEY: unsure
 85 <222> LOCATION: (632)
 86 <223> OTHER INFORMATION: n is a, c, g or t
 88 <220> FEATURE:
 89 <221> NAME/KEY: unsure
 90 <222> LOCATION: (658)
 91 <223> OTHER INFORMATION: n is a, c, g or t
 93 <220> FEATURE:
 94 <221> NAME/KEY: unsure
 95 <222> LOCATION: (690)
 96 <223> OTHER INFORMATION: n is a, c, g or t
 98 <220> FEATURE:
 99 <221> NAME/KEY: unsure
100 <222> LOCATION: (716)
101 <223> OTHER INFORMATION: n is a, c, g or t
103 <220> FEATURE:
104 <221> NAME/KEY: unsure
105 <222> LOCATION: (724)
106 <223> OTHER INFORMATION: n is a, c, g or t
108 <220> FEATURE:
109 <221> NAME/KEY: unsure
110 <222> LOCATION: (736)
111 <223> OTHER INFORMATION: n is a, c, g or t
113 <220> FEATURE:
114 <221> NAME/KEY: unsure
115 <222> LOCATION: (752)
116 <223> OTHER INFORMATION: n is a, c, g or t
118 <220> FEATURE:
119 <221> NAME/KEY: unsure
120 <222> LOCATION: (758)
121 <223> OTHER INFORMATION: n is a, c, g or t
```

RAW SEQUENCE LISTING   DATE: 09/19/2005
PATENT APPLICATION: US/10/659,869A   TIME: 10:34:15

Input Set : A:\BB1294 USCNT Corrected Seq List.txt
Output Set: N:\CRF4\09192005\J659869A.raw

```
       123 <400> SEQUENCE: 1
W-->   124 caancgcggg attgttcaat ccgttcgaca tcacaaaatc cacgcacaaa gaagcgacag  60
       125 atgactacga gcagggtggc caggtcgtgc ggccgcggna gcgacgatga gccggcggtg 120
       126 cgcaaggggc cgtggacgct ggaggaggac ctcatcctcg tcagctacat ctcccagcac 180
       127 ggggagggct cctgggacaa cctcgcgcgc gcagctggac tgaaccgcaa cggcaagagc 240
       128 tgcaggctgc ggtggctcaa ctacctgagg ccggggggtgc ggcgcggcag catcacggcg 300
       129 ggggaggaca cggtcatccg ggagctccac gcgaggtggg ggaacaagtg gtccaagatc 360
       130 tccaagcacc tccccggccg aaccgacaac gagatnaaga actactggag gaccaggatc 420
       131 caacaagaag aacagcaagg agccaagacg acgcaacaac gggaccgtcn acgaccgcca 480
       132 actccngggc ccggggacga ctactgggtg cacaacccga ccccgacaac aagccatact 540
       133 gcctgcaaaa accccatgca actgcacgcg acaacaaccg gtctcntaac aacaagacan 600
       134 ccccttcggg gnctnacaac cagaaanccc cnccggcggg gaatggtaat cacaacanaa 660
       135 attgtaccct ctgtccaact aactttcccn cggcacataa acgtcggctg accttnacaa 720
       136 tcantcttct ccactnatgc actttgcaac gngtgtantt tgataaacct t          771
       138 <210> SEQ ID NO: 2
       139 <211> LENGTH: 157
       140 <212> TYPE: PRT
       141 <213> ORGANISM: Zea mays
       143 <220> FEATURE:
       144 <221> NAME/KEY: UNSURE
       145 <222> LOCATION: (111)
       146 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
       148 <220> FEATURE:
       149 <221> NAME/KEY: UNSURE
       150 <222> LOCATION: (136)
       151 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
       153 <400> SEQUENCE: 2
       154 Thr Thr Ser Arg Val Ala Arg Ser Cys Gly Arg Gly Ser Asp Asp Glu
       155  1               5                  10                  15
       157 Pro Ala Val Arg Lys Gly Pro Trp Thr Leu Glu Glu Asp Leu Ile Leu
       158             20                  25                  30
       160 Val Ser Tyr Ile Ser Gln His Gly Glu Gly Ser Trp Asp Asn Leu Ala
       161             35                  40                  45
       163 Arg Ala Ala Gly Leu Asn Arg Asn Gly Lys Ser Cys Arg Leu Arg Trp
       164         50                  55                  60
       166 Leu Asn Tyr Leu Arg Pro Gly Val Arg Arg Gly Ser Ile Thr Ala Gly
       167 65                  70                  75                  80
       169 Glu Asp Thr Val Ile Arg Glu Leu His Ala Arg Trp Gly Asn Lys Trp
       170             85                  90                  95
W-->   172 Ser Lys Ile Ser Lys His Leu Pro Gly Arg Thr Asp Asn Glu Xaa Lys
       173             100                 105                 110
       175 Asn Tyr Trp Arg Thr Arg Ile Gln Glu Glu Gln Gln Gly Ala Lys
       176             115                 120                 125
       178 Thr Thr Gln Gln Arg Asp Arg Xaa Arg Pro Pro Thr Pro Gly Pro Gly
       179     130                 135                 140
       181 Asp Asp Tyr Trp Val His Asn Pro Thr Pro Thr Thr Ser
       182 145                 150                 155
       184 <210> SEQ ID NO: 3
       185 <211> LENGTH: 782
```

```
186 <212> TYPE: DNA
187 <213> ORGANISM: Zea mays
189 <220> FEATURE:
190 <221> NAME/KEY: unsure
191 <222> LOCATION: (3)
192 <223> OTHER INFORMATION: n is a, c, g or t
194 <400> SEQUENCE: 3
```

W--> 195 acngtctgct gcaggtacgg gccgtaatcc gggtcgacca cgcgtcccga caaagtggca 60
```
196 tactcttctc tgtactagct ttcttcttcc tctcctcttc ctcacaaaca gactggattt 120
197 caacaagata atcctgaaac tggagccaac aagcacacag agaaagaaga gcaagaagac 180
198 cggctcccag ccgatacaag gtaggagtga gcagcgttag tttcatcata tcgcataggc 240
199 gatatggtga cagtgagaga ggagactcgc aaggggccat ggacagagca ggaggacctg 300
200 caactggtat gcactgtccg tctgttcggt gaacgtcgtt gggatttcat tgccaaagta 360
201 tcaggactca accggacagg caagagctgc cggctgcggt gggtcaacta cctccaccct 420
202 ggcctcaagc gtgggcgcat gtctccccat gaagagcgcc tcatccttga gctgcacgct 480
203 cggtggggaa acaggtggtc caggatagca cggcgcttgc cagggcgcac tgacaatgag 540
204 atcaagaact actggaggac acacatgagg aagaaagcac aggagaggaa gaggaacatg 600
205 tctccatcat catcctcatc ttcactgagt taccagtcag gctacccaga tactccatca 660
206 atcattggag ttaagggaca ggagcttcat ggtggcagtg gctgcatcac aagcatcctg 720
207 aagggcaccc atccggacat ggatggctat cccatggacc agatatggat ggaattgaag 780
208 gg                                                              782
210 <210> SEQ ID NO: 4
211 <211> LENGTH: 179
212 <212> TYPE: PRT
213 <213> ORGANISM: Zea mays
215 <400> SEQUENCE: 4
216 Met Val Thr Val Arg Glu Glu Thr Arg Lys Gly Pro Trp Thr Glu Gln
217  1               5                  10                  15
219 Glu Asp Leu Gln Leu Val Cys Thr Val Arg Leu Phe Gly Glu Arg Arg
220              20                  25                  30
222 Trp Asp Phe Ile Ala Lys Val Ser Gly Leu Asn Arg Thr Gly Lys Ser
223              35                  40                  45
225 Cys Arg Leu Arg Trp Val Asn Tyr Leu His Pro Gly Leu Lys Arg Gly
226          50                  55                  60
228 Arg Met Ser Pro His Glu Glu Arg Leu Ile Leu Glu Leu His Ala Arg
229  65                  70                  75                  80
231 Trp Gly Asn Arg Trp Ser Arg Ile Ala Arg Arg Leu Pro Gly Arg Thr
232                  85                  90                  95
234 Asp Asn Glu Ile Lys Asn Tyr Trp Arg Thr His Met Arg Lys Lys Ala
235              100                 105                 110
237 Gln Glu Arg Lys Arg Asn Met Ser Pro Ser Ser Ser Ser Ser Ser Leu
238          115                 120                 125
240 Ser Tyr Gln Ser Gly Tyr Pro Asp Thr Pro Ser Ile Ile Gly Val Lys
241      130                 135                 140
243 Gly Gln Glu Leu His Gly Gly Ser Gly Cys Ile Thr Ser Ile Leu Lys
244 145                 150                 155                 160
246 Gly Thr His Pro Asp Met Asp Gly Tyr Pro Met Asp Gln Ile Trp Met
247              165                 170                 175
249 Glu Leu Lys
```

RAW SEQUENCE LISTING   DATE: 09/19/2005
PATENT APPLICATION: **US/10/659,869A**   TIME: 10:34:15

Input Set : **A:\BB1294 USCNT Corrected Seq List.txt**
Output Set: **N:\CRF4\09192005\J659869A.raw**

```
252 <210> SEQ ID NO: 5
253 <211> LENGTH: 601
254 <212> TYPE: DNA
255 <213> ORGANISM: Zea mays
257 <220> FEATURE:
258 <221> NAME/KEY: unsure
259 <222> LOCATION: (451)
260 <223> OTHER INFORMATION: n is a, c, g or t
262 <220> FEATURE:
263 <221> NAME/KEY: unsure
264 <222> LOCATION: (456)
265 <223> OTHER INFORMATION: n is a, c, g or t
267 <220> FEATURE:
268 <221> NAME/KEY: unsure
269 <222> LOCATION: (478)
270 <223> OTHER INFORMATION: n is a, c, g or t
272 <220> FEATURE:
273 <221> NAME/KEY: unsure
274 <222> LOCATION: (480)
275 <223> OTHER INFORMATION: n is a, c, g or t
277 <220> FEATURE:
278 <221> NAME/KEY: unsure
279 <222> LOCATION: (490)
280 <223> OTHER INFORMATION: n is a, c, g or t
282 <220> FEATURE:
283 <221> NAME/KEY: unsure
284 <222> LOCATION: (510)
285 <223> OTHER INFORMATION: n is a, c, g or t
287 <220> FEATURE:
288 <221> NAME/KEY: unsure
289 <222> LOCATION: (542)
290 <223> OTHER INFORMATION: n is a, c, g or t
292 <220> FEATURE:
293 <221> NAME/KEY: unsure
294 <222> LOCATION: (549)
295 <223> OTHER INFORMATION: n is a, c, g or t
297 <220> FEATURE:
298 <221> NAME/KEY: unsure
299 <222> LOCATION: (552)
300 <223> OTHER INFORMATION: n is a, c, g or t
302 <220> FEATURE:
303 <221> NAME/KEY: unsure
304 <222> LOCATION: (554)
305 <223> OTHER INFORMATION: n is a, c, g or t
307 <220> FEATURE:
308 <221> NAME/KEY: unsure
309 <222> LOCATION: (572)
310 <223> OTHER INFORMATION: n is a, c, g or t
312 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/19/2005
PATENT APPLICATION: US/10/659,869A   TIME: 10:34:16

Input Set : A:\BB1294 USCNT Corrected Seq List.txt
Output Set: N:\CRF4\09192005\J659869A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 4,99,396,470,486,586,600,612,615,627,632,658,690,716,724,736
Seq#:1; N Pos. 752,758
Seq#:2; Xaa Pos. 114,136
Seq#:3; N Pos. 3
Seq#:5; N Pos. 451,456,478,480,490,510,542,549,552,554,572,578,583,588,595
Seq#:5; N Pos. 601
Seq#:6; Xaa Pos. 101,113,114
Seq#:7; N Pos. 356,374,479,508,532
Seq#:8; Xaa Pos. 42,48
Seq#:15; N Pos. 308
Seq#:16; Xaa Pos. 59
Seq#:17; N Pos. 577,582,583,587
Seq#:21; N Pos. 355,498,534,543,582,597,606,619,634
Seq#:22; Xaa Pos. 53,100,112
Seq#:23; N Pos. 118,298,355,356,374,376,381,386,393,408,409,417,432,453,466
Seq#:23; N Pos. 469,476,477
Seq#:24; Xaa Pos. 13,73,92,93,99,101,103,105,110,113,118,125
Seq#:27; N Pos. 136,229,271,373,382,386,424,475,493,494,511,520,522,531,536
Seq#:27; N Pos. 552,553
Seq#:28; Xaa Pos. 19,20,51,65
Seq#:31; N Pos. 301,356,388,393,470,485,495,513,517,522
Seq#:33; N Pos. 798,807,814
Seq#:42; Xaa Pos. 138
Seq#:45; N Pos. 519,521,530,531,534,800,1124,1151
Seq#:46; Xaa Pos. 142,145,146,147,178
Seq#:51; N Pos. 358,429
Seq#:52; Xaa Pos. 59,72,83
Seq#:55; N Pos. 259,307,319
Seq#:56; Xaa Pos. 21,27,28,41
Seq#:59; N Pos. 108,355,361,392,414,431,434,447,456,459
Seq#:60; Xaa Pos. 27,109,111,122,129
Seq#:61; N Pos. 435,442,450,457

VERIFICATION SUMMARY   DATE: 09/19/2005
PATENT APPLICATION: **US/10/659,869A**   TIME: 10:34:16

Input Set : **A:\BB1294 USCNT Corrected Seq List.txt**
Output Set: **N:\CRF4\09192005\J659869A.raw**

```
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
M:341 Repeated in SeqNo=2
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420
M:341 Repeated in SeqNo=5
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:96
M:341 Repeated in SeqNo=6
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
M:341 Repeated in SeqNo=7
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:300
L:713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:48
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:540
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:300
M:341 Repeated in SeqNo=21
L:928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:48
M:341 Repeated in SeqNo=22
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60
M:341 Repeated in SeqNo=23
L:1095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
M:341 Repeated in SeqNo=24
L:1302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:120
M:341 Repeated in SeqNo=27
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:16
M:341 Repeated in SeqNo=28
L:1480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:300
M:341 Repeated in SeqNo=31
L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:780
L:1868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:128
L:2013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:480
M:341 Repeated in SeqNo=45
L:2072 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:128
M:341 Repeated in SeqNo=46
L:2294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:300
M:341 Repeated in SeqNo=51
L:2329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:48
M:341 Repeated in SeqNo=52
L:2465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:240
M:341 Repeated in SeqNo=55
L:2492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:16
M:341 Repeated in SeqNo=56
L:2628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60
M:341 Repeated in SeqNo=59
L:2671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:16
M:341 Repeated in SeqNo=60
L:2728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:420
```